NextGen City Pairs - Northern California

When a traveler starts to plan a trip or when an airline operator starts to plan air service, they will look at the points of origin and destination for flights. These points of origin and destination are thought of in terms of pairs of cities or pairs of metroplexes. In measuring city-pair performance, the NPS website looks at flights that either originate or conclude at a specific metroplex, such as the New York/Philadelphia metroplex to Southern California. For each city pair, an origin airport (for example, Newark Liberty International, EWR) and a destination airport (for example, Los Angeles International, LAX) are listed. The city pairs are unidirectional (only measuring EWR to LAX in the example above) and the NPS website reports them as recommended by the NextGen Advisory Committee (NAC).

All results are reported by Fiscal Year (FY), October 1 — September 30.

Flights can depart outside of the reportable hours, but must arrive during the reportable hours at the destination airport. For a list of the reportable hours for each airport, please see the Reference Guide.

Average Airborne Time (FY)

This metric is measured as Minutes

During reportable hours at the destination airport, the average Airborne Time for flights between the selected city pair. The reportable hours vary by airport and the results are reported by fiscal year. Additional reportable hour information can be found in the airport information section of the Reference Guide.

Origin	Destination	2009	2010	2011	2012	2013	2014
JFK	SFO	348.9	347.4	347.6	345.4	347.8	351.4
LAX	SFO	56.7	57.3	56.7	55.7	56.2	55.6
SAN	SFO	69.6	70.4	69.4	68.1	68.6	68.3
SEA	SFO	103.6	102.8	102.7	102.7	103.0	100.8

Effective Gate-to-Gate Time (FY)

This metric is measured as Average Minutes per Flight

During reportable hours at the destination airport, the difference between the Actual Gate-In Time at the destination airport and the Scheduled Gate-Out Time at the origin airport. Flights may depart outside reportable hours, but must arrive during them. The reportable hours vary by airport and the results are reported by FY.

Origin	Destination	2009	2010	2011	2012	2013	2014
JFK	SFO	395.8	392.3	392.9	390.9	394.7	395.8
LAX	SFO	90.2	92.1	93.7	96.0	97.5	91.7
SAN	SFO	104.1	105.1	105.5	106.6	107.2	105.3
SEA	SFO	139.5	137.0	136.8	140.3	142.4	135.2

Airborne Distance (FY)

This metric is measured as Nautical Miles

During reportable hours at the destination airport, the average airborne distance of flights between the selected city pair. The reportable hours vary by airport and the results are reported by fiscal year. Additional reportable hour information can be found in the airport information section of the Reference Guide.

Origin	Destination	2009	2010	2011	2012	2013	2014
JFK	SFO	1	1	2318.0	2314.9	2318.7	2322.8
LAX	SFO	1	1	320.1	317.8	318.2	316.1
SAN	SFO	1	1	406.1	404.2	404.4	402.7
SEA	SFO	1	1	662.5	661.4	661.9	660.4

[1] **No data available.**

Efficiency:

As described by ICAO, *efficiency addresses the operational and economic cost-effectiveness of gate-to-gate flight operations from a single-flight perspective. In all phases of flight, airspace users want to depart and arrive at the times they select and fly the trajectory they determine to be optimum.*

Airborne Time Predictability (FY)

This metric is measured as Minutes

During reportable hours at the destination airport, the difference between the 85th and 15th percentiles of Airborne Time for flights between the selected city pair. The reportable hours vary by airport and the results are reported by FY. Additional reportable hour information can be found in the airport information section of the Reference Guide.

Origin	Destination	2009	2010	2011	2012	2013	2014
JFK	SFO	42	36	42	33	36	33
LAX	SFO	12	13	12	9	10	9
SAN	SFO	14	13	13	10	11	10
SEA	SFO	16	16	17	15	15	13

Effective Gate-to-Gate Time Predictability (FY)

This metric is measured as Minutes

During reportable hours, the difference between the 85th and 15th percentiles of the Effective Gate-to-Gate Time metric. The reportable hours vary by airport and the results are reported by FY. Additional percentile and reportable hour information can be found in the Reference Guide.

Origin	Destination	2009	2010	2011	2012	2013	2014
JFK	SFO	66	63	67	60	65	58

LAX	SFO	58	60	60	64	63	49
SAN	SFO	59	59	58	62	60	54
SEA	SFO	53	59	55	57	63	48

Predictability:

As described by ICAO: *Predictability refers to the ability of airspace users and ATM service providers to provide consistent and dependable levels of performance.*

Core Airports within Northern California Metroplex

SFO

San Francisco International Airport